



# HURRICANE MATTHEW – VIRGINIA IMPACTS

## 2016-10 Hurricane Matthew

### Open EOCs and Local Declarations

#### Local Emergency Declared

Declared

#### Localities with Declarations

Chesapeake City  
Hampton City  
Middlesex County  
Norfolk City  
Portsmouth City  
Suffolk City  
Virginia Beach City

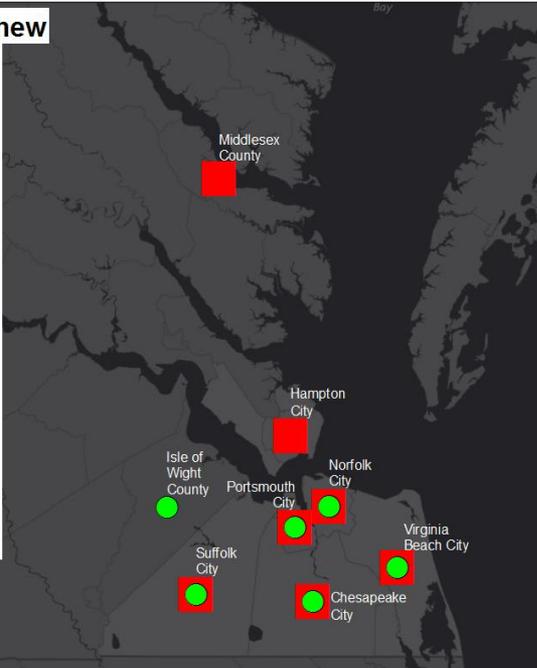
#### Localities with Terminated Declarations

Newport News City

#### Open EOC

Open  
Chesapeake City  
Isle of Wight County  
Norfolk City  
Portsmouth City  
Suffolk City  
Virginia Beach City

Date: 10/11/2016  
Time: 11 AM



## Human toll

- 2 confirmed deaths
- Roughly 100 individuals required shelter
- Multiple unanticipated nighttime evacuations conducted

## Infrastructure Impacts

- Port of Virginia closed
- 320,000 customers without power
- Road, ferry, bridge, mass transit, and Amtrak closures

## Initial damage assessments (as of 12 October 2016)

- 5 jurisdictions meet damage thresholds (additional IDA reporting anticipated)
- \$12.8 million dollars in public property damage reported
- \$ 23.4 million dollars in private property damage reported

Pre-MATTHEW Coordination	MATTHEW Response Efforts	MATTHEW Recovery Efforts
September 29 – October 8	October 9-11	October 12 - ongoing
VEST still at Yellow post-Julia	VDEM regional staff co-located in local EOCs quickly	Collection of Initial Damage Assessments (IDA) began 10 October
Governor and staff alerted to threat 10 days prior to MATTHEW impacts	Virginia National Guard assets in Norfolk within 8 minutes of request by Mayor	Governor's tour of impact areas scheduled for 13 October
Coordinated with VECTOR, FEMA Regions III&IV, and localities	Special operations teams supported local response efforts in southeast Virginia	Analysis of initial estimates for potential joint preliminary damage assessments
Prepositioning of special operations assets	Virginia resources supporting ongoing efforts in North Carolina	Voluntary and Individual Assistance branch matching requests to assets



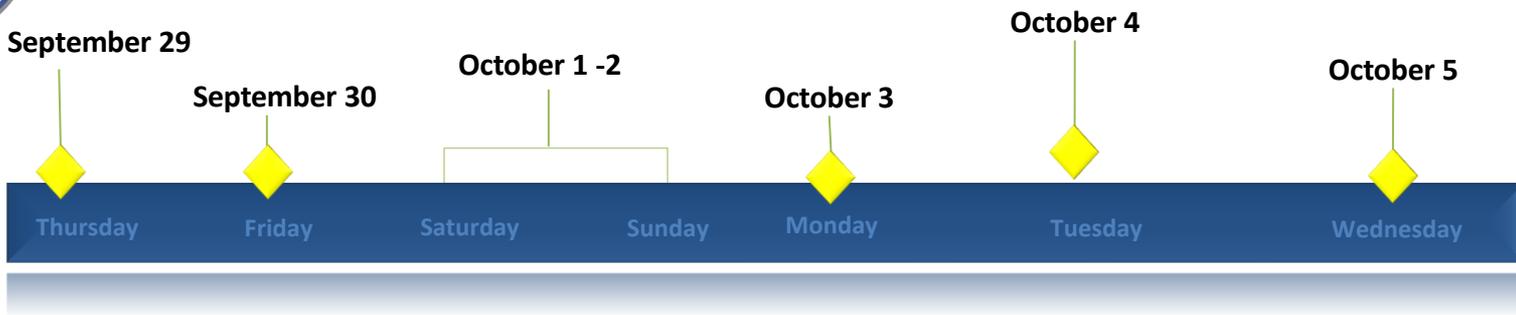
# INITIAL DAMAGE ASSESSMENTS

Jurisdiction	(A) Debris Clearance	(B) Emergency Protective Measures	(C) Roads/ Bridges	(D) Water Control	(E) Public Build. & Equip	(F) Public Utility Systems	(G) Park and Rec.	Public Property TOTAL	Damage Threshold	Population	Per Capita Loss
Accomack	\$800					\$35,049		\$35,849	\$ 119,722.04	33,164	\$1.08
Amelia						\$23,160		\$23,160	\$ 45,810.90	12,690	\$1.08
Isle of Wight		\$15,000	\$355,000	\$7,500		\$3,000	\$75,000	\$455,500	\$ 127,324.70	35,270	\$1.83
Northampton	\$1,800					\$37,753		\$39,553	\$ 44,724.29	12,389	\$12.91
Southampton						\$18,100		\$18,100	\$ 67,037.70	18,570	\$3.19
Chesapeake	\$100,000	\$55,535	\$1,076,000	\$108,000	\$75,000	\$650,000	\$303,976	\$2,368,511	\$ 802,174.49	222,209	\$0.97
Franklin City		\$30,000	\$9,000		\$400,000	\$15,000		\$454,000	\$ 30,981.02	8,582	\$10.66
Hampton	\$180,859	\$43,932		\$20,000			\$3,750	\$248,541	\$ 496,143.96	137,436	\$52.90
Norfolk	\$400,000	\$287,230	\$5,000	\$0	\$303,240	\$2,188,100	\$0	\$3,183,570	\$ 876,518.83	242,803	\$1.81
Suffolk						\$33,600		\$33,600	\$ 305,351.85	84,585	\$13.11
Virginia Beach	\$6,000,000							\$6,000,000	\$1,581,158.34	437,994	\$0.40
<b>TOTALS</b>	<b>\$6,683,459</b>	<b>\$431,697</b>	<b>\$1,445,000</b>	<b>\$135,500</b>	<b>\$778,240</b>	<b>\$3,003,762</b>	<b>\$382,726</b>	<b>\$12,860,384</b>		<b>1,245,692</b>	<b>\$10.32</b>

- Over \$23 million dollars in private property damage has been reported through Initial Damage Assessments in 7 jurisdictions
- Over \$12.8 million dollars in public property damage has been reported
- Public property damage for total impacted area average is \$10.32 per capita
- 1,184 private property structures have been reported as damaged
  - 35% reported by Norfolk
  - 23% reported by Virginia Beach



# HURRICANE MATTHEW RECOVERY TIMELINE



**Thursday  
September 29**



- Tropical Storm Matthew becomes a hurricane in the Caribbean Sea
- VDEM issues first planning product (11 days prior to Virginia impacts)
- Tri-state calls with North Carolina and South Carolina begin

**Friday  
September 30**



- VDEM Hurricane Technical Specialist begins issuing specialized reporting for VDEM leadership
- VDEM Coordinator alerts the Chief of Staff
- VECTOR calls begin

**October 1 -2**



- VDEM Watch Center updated agency staff with new NHS forecasts every 4 hours

**Monday  
October 3**



- VDEM Coordinator briefs Governor McAuliffe in the Situation Room

**Tuesday  
October 4**



- Peak Virginia threat in NWS forecasts
- NHC Forecasts showed Virginia in the middle of the 5 day forecast cone
- VDEM Coordinator brief Governor at VP Debate (Longwood)

**Wednesday  
October 5**



- VECTOR calls initiated
- First draft of Executive Order prepared
- VDEM Coordinator briefs Governor McAuliffe in the Situation Room



# HURRICANE MATTHEW RECOVERY TIMELINE

October 6

October 7

October 8

October 9

October 10

October 11

October 12

October 13

Thursday

Friday

Saturday

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Thursday  
October 6

- Matthew was a CAT 4 Hurricane located in the Bahamas and was heading towards the Florida Coastline.
- VDEM conference calls with VDEM regions and NWS began

Friday  
October 7

- Governor McAuliffe Declares a State of Emergency
- National Guard tasking began

Saturday  
October 8

- VDEM Region 5 staff deployed to local EOCs due to reports of significant flooding
- NG assets in Norfolk within 8 minutes of request by mayor**
- VEST team members begin staffing the VEOC**

Sunday  
October 9

- Southeast Virginia received heavy rainfall (10+ inches) in a 24 hour period
- VEOC increased posture to Partial Support Operations (Orange).
- Local shelters serviced roughly 100 individuals
- Peak outages in Virginia reached almost 320,000
- Port of Virginia closed

Monday  
October 10

- VEOC Transitioned to Increased Readiness (Yellow).
- National Guard Began Demobilization.
- 36,0000 customers were without power.
- Localities began Initial Damage Assessments (IDAs)

Tuesday  
October 11

- Matthew dropped 11+ inches of rain across Southeastern Virginia in a 24 hour period, causing flooding.
- EOCs were continuing to operate and coordinate with VEOC



# HURRICANE MATTHEW RECOVERY TIMELINE



**Wednesday  
October 12**

- Coordination and planning for VDEM’s Coordinator and Virginia's Governor visit to affected areas in southeastern Virginia.
- Assessing and collecting IDAs

**Thursday  
October 13**

- Virginia Governor, VDEM Coordinator, and FEMA RIII Coordinator tour damaged areas.

**Friday  
October 14**

- VDEM will deploy Individual Assistance and Public Assistance teams to affected areas.

**Future Planning**

- Coordinate possible joint damage assessments
- Develop long term recovery framework
- Continue public messaging campaign in support of state and local recovery efforts

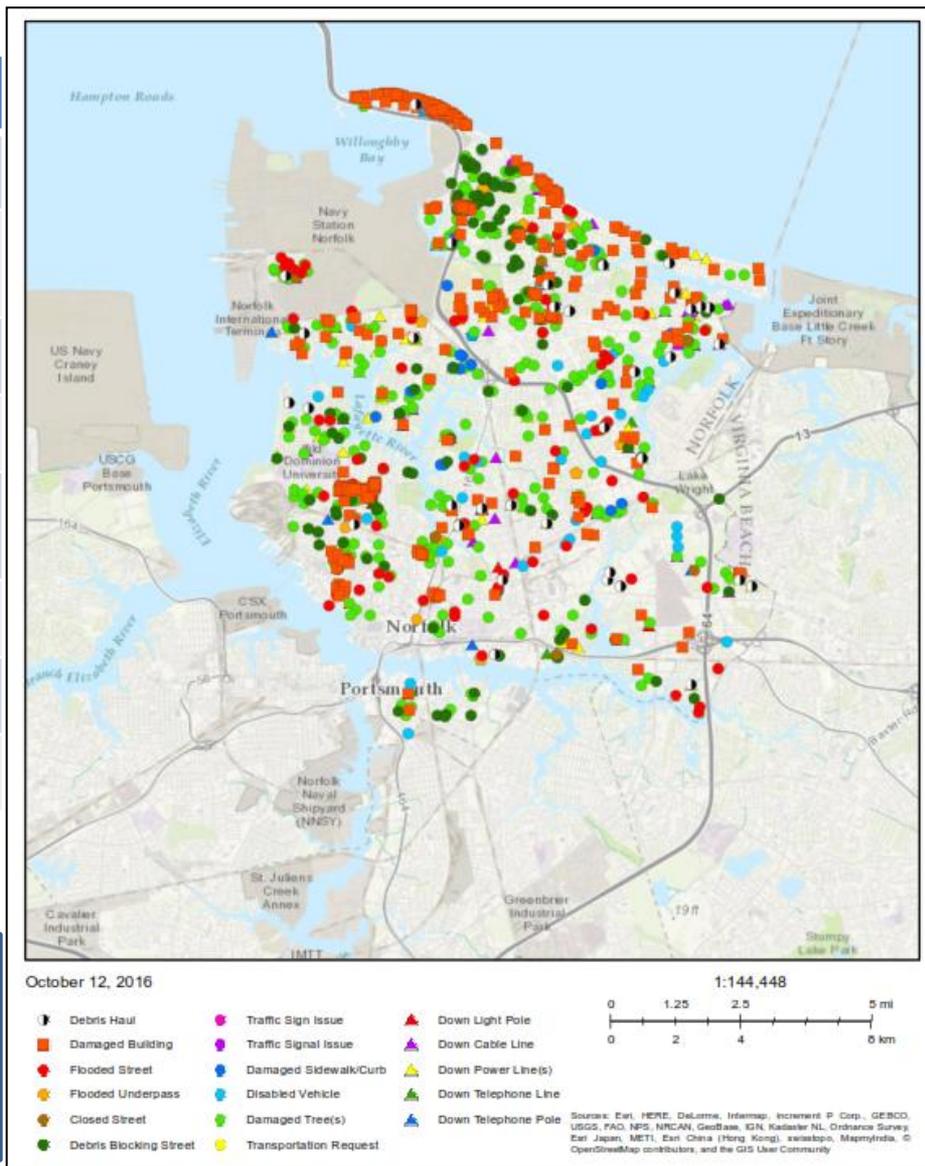


# NORFOLK DAMAGES

Public Property Damage	Amount
(A) Debris Clearance	\$400,000
(B) Emergency Protective Measures	\$287,230
(C) Roads/ Bridges	\$5,000
(D) Water Control	-
(E) Public Buildings & Equipment	\$303,240
(F) Public Utility Systems	\$2,188,100
(G) Park and Recreation	-
<b>Public Property Total</b>	<b>\$3,183,570</b>

Damage Threshold - \$876,518

The port of Virginia, which includes four terminals (3 in southeast Virginia) closed due to Hurricane MATTHEW 2- 4 October.



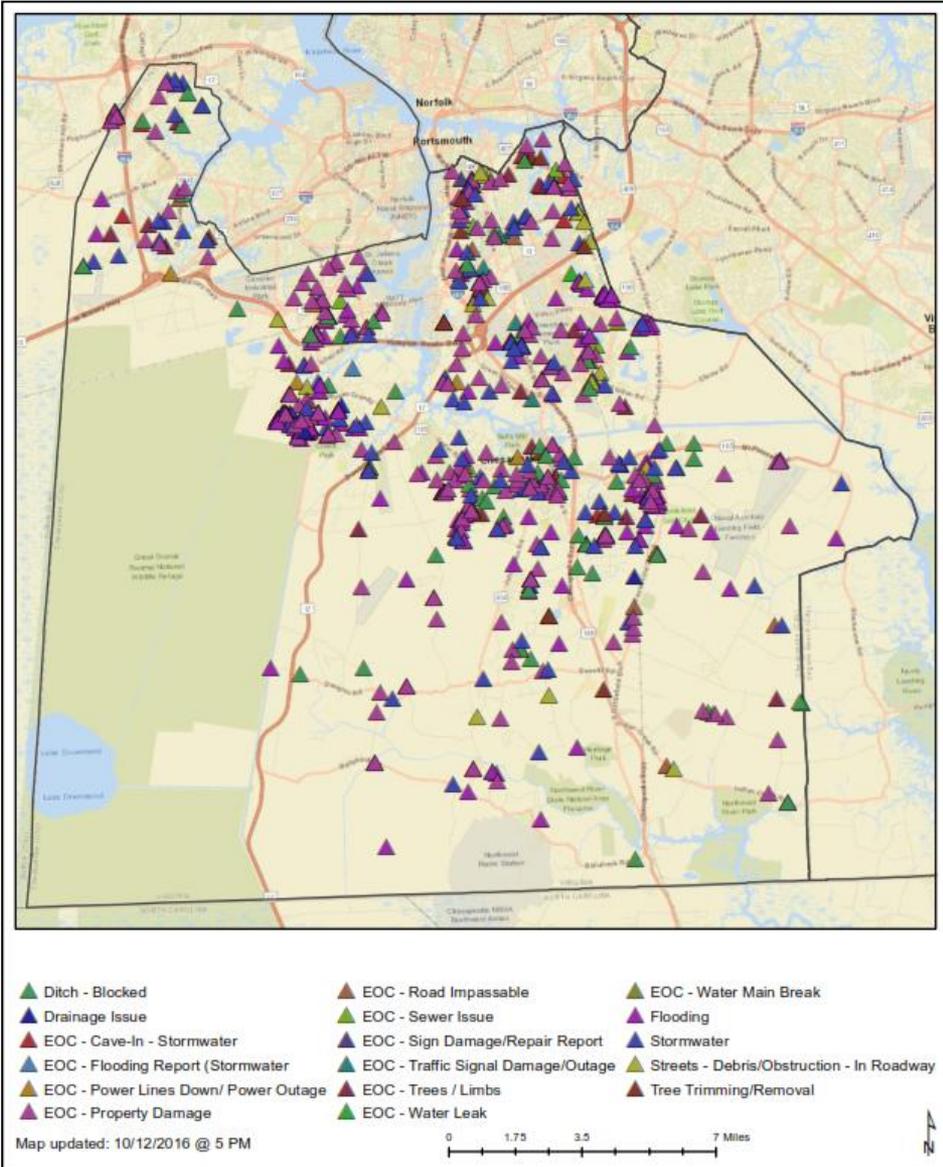


# CHESAPEAKE DAMAGES

Public Property Damage	Amount
(A) Debris Clearance	\$100,000
(B) Emergency Protective Measures	\$55,535
(C) Roads/ Bridges	\$1,076,000
(D) Water Control	\$108,000
(E) Public Buildings & Equipment	\$75,000
(F) Public Utility Systems	\$650,000
(G) Park and Recreation	\$303,976
<b>Public Property Total</b>	<b>\$2,368,511</b>

Damage Threshold - \$ 802,174

Chesapeake is still providing transportation assistance to families in three neighborhoods that are still flooded.



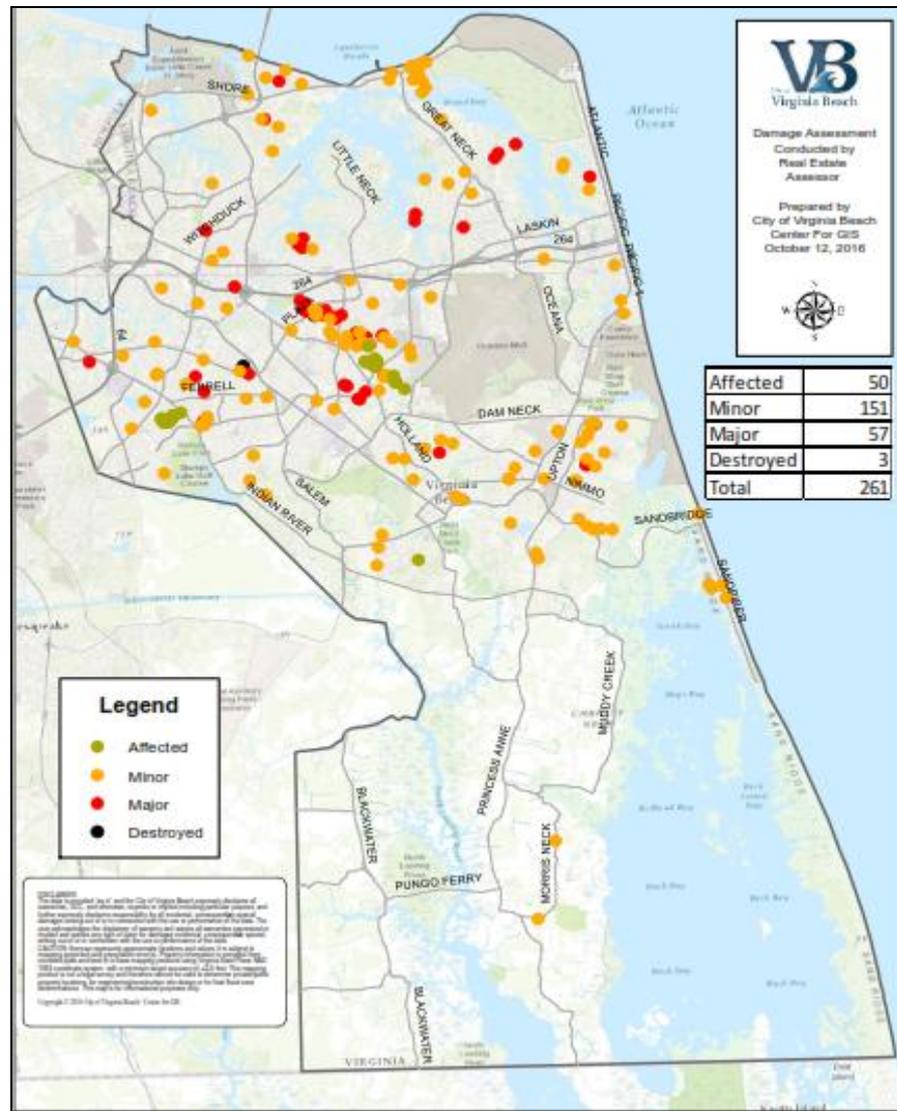


# VIRGINIA BEACH DAMAGES

Public Property Damage	Amount
(A) Debris Clearance	\$6,000,000
(B) Emergency Protective Measures	
(C) Roads/ Bridges	
(D) Water Control	
(E) Public Buildings & Equipment	
(F) Public Utility Systems	
(G) Park and Recreation	
<b>Public Property Total</b>	<b>\$6,000,000</b>

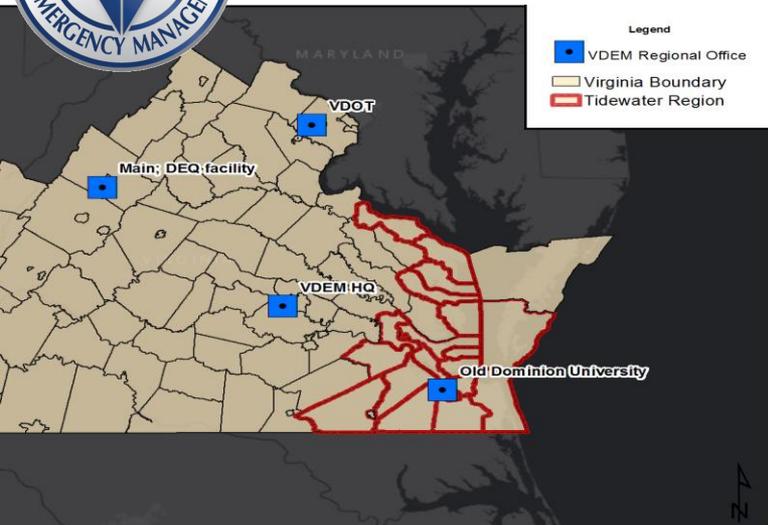
Damage Threshold - \$1,581,158

Virginia Beach is home of U.S. Urban SAR Task Force 2, which is currently deployed to Florida in support of Hurricane Matthew efforts





# HURRICANE MATTHEW - INTIAL DAMAGE ASSESSMENTS



Locality	Destroyed	Major	Minor	Affected
Chesapeake	3	8	103	12
Hampton	0	7	34	8
Isle of Wight County	0	1	6	4
Newport News	0	1	105	3
Norfolk	1	26	65	326
Portsmouth	0	0	0	200
Virginia Beach	9	59	152	51
<b>TOTALS</b>	<b>13</b>	<b>102</b>	<b>465</b>	<b>604</b>

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5 jurisdictions have met damage thresholds thus far; average per capita loss in affected area \$10.32